

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1. (currently amended) Data transmission system comprising an antenna ~~(300, 328, 600)~~ provided with at least a monopole radiating element ~~(302, 500, 502, 600, 602)~~ mounted on a conductive earth plane ~~(306, 504, 606)~~, ~~characterized in that~~ , wherein the radiating element ~~(302, 500, 502, 600, 602)~~ is connected to the conductive surface of the earth plane ~~(306, 504, 606)~~ via a mast ~~(304, 608, 610)~~ located near an edge of said conductive surface.
2. (currently amended) ~~A Transmission~~ system according to Claim 1, ~~characterized in that~~ wherein, since the radiating element ~~(302, 500, 502, 600, 602)~~ is connected to the conducting surface of the earth plane ~~(306, 504, 606)~~ via a mast ~~(304, 608, 610)~~ fastened to the radiating element ~~(302, 500, 502, 600, 602)~~ at its point of excitation, this point of excitation is off-centred with respect to the surface of the earth plane ~~(306, 504, 606)~~.
3. (currently amended) ~~System~~ A system according to Claim 1 ~~or 2~~, ~~characterized in that~~ , wherein the earth plane ~~(306, 504, 606)~~ has at least one of its dimensions, such as its length, its width and/or its height, of the order of a multiple of $\lambda/2$ where λ is a wavelength used by the antenna ~~(300, 328, 600)~~.
4. (currently amended) ~~System~~ A system according to ~~one of Claims 1, 2 and 3~~ ~~characterized in that~~ Claim 1, wherein it includes means so that its reflection coefficient is less than -10 dB in the operating frequency band.

5. (currently amended) ~~System~~ A system according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein it includes a first compact radiating element ~~(500, 600)~~ and a second compact radiating element ~~(502, 602)~~ mounted on the same conductive earth plane ~~(504, 606)~~ via masts located on separate edges of said earth plane.
6. (currently amended) ~~System~~ A system according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the antenna ~~(300, 328, 600)~~ is provided with a hollowed-out radiating element.
7. (currently amended) ~~System~~ A system according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the earth plane ~~(306, 504, 606)~~ of the antenna ~~(300, 328, 600)~~ corresponds to one face of a digital terrestrial television decoder.
8. (currently amended) ~~System~~ A system according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein it includes means for receiving and decoding transmitted signals within the context of digital terrestrial television within the frequency band lying between 470 and 862 MHz.
9. (currently amended) ~~System~~ A system according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the antenna includes means for pivoting about a rotation mechanism with respect to the surface of the earth plane.